MILLENNIUM™ 4 Universal Remote Control User's Guide

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INTRODUCTION

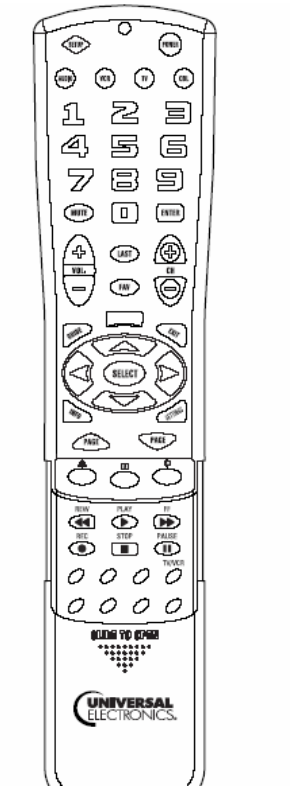
The Universal Electronics Millennium™ 4 is our latest generation universal remote control. It is designed with sophisticated technology that will allow you to finally consolidate the clutter of all of the original remote controls in your home entertainment system. It's packed with easy-to-use features such as:

- Preprogrammed to operate the cable converter supplied by your cable system provider
- Preprogrammed technology for easy setup
- Instant "Tune-In" keys for assignment to your favorite channels
- Convenient hide-away sliding door to conceal less-used functions
- Color-coded keys to quickly locate popular functions
- Cable ID Lock to lock your remote control for use only with the cable converter
- Channel Lock to lock channel selection only to the cable converter
- Code library for video and audio components
- Code Search to help program control of older or discontinued components

Before you can use your new remote control, you will need to program it to operate the specific home entertainment components you wish to control. Follow the instructions detailed in this manual to set up your Millennium 4 and enjoy your new remote control.

FEATURES AND FUNCTIONS

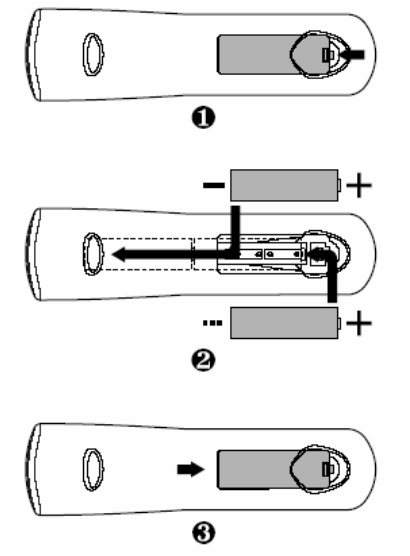
Use the illustration below to locate Millennium 4 features and then study the *Key Charts* to learn how they function.



Key Charts

○	The LED (red light) blinks to show that the remote control is working and is sending signals.
AUDIO VCR TV CBL	Press **AUDIO, VCR, TV,** or **CBL** once to select a home entertainment component to control.
POWER	Press **POWER** once to turn on or off the selected home entertainment component.
SETUP	Use **SETUP** for all programming sequences.
1 2 3 4 5 6 7 8 9 0	Use the keypad (**0** ~ **9**) to directly select channels (e.g., 09 or 31).
MUTE	Press **MUTE** once to turn sound off or on.
ENTER	Press **ENTER** once after entering channel numbers on some TV models.
VOL+ VOL-	Use **VOL+** (or **VOL-**) to raise (or lower) the sound volume.
CH+ CH-	Use **CH+** (or **CH-**) to select the next higher (or lower) channel.
LAST	Press **LAST** once to recall the last channel and to page back one screen in the main menu.
FAV	Use **FAV** to cycle through your favorite channels that are stored in your cable converter.
GUIDE	Use **GUIDE** to display the program guide.
EXIT	Use **EXIT** to exit out of your cable converter's menu and guide.
	Use cursor keys to move the cursor in the program guide and menu screens.
SELECT	Use **SELECT/OK** to choose options, PPV events, and to tune programs from the program guide.
INFO	Use **INFO** to display current channel and program information.
SETTINGS	Press **SETTINGS** once to display your cable converter's screen menu.
PAGE PAGE	Use **PAGE** △ (or **PAGE** ▽) to page up or down) through menu screens and the program guide.
	Reserved for use as "Tune-In" keys
SLIDE TO OPEN	Slide the door open to reveal less-often used keys such as VCR transport buttons and cable converter features.
REW PLAY FF REC STOP PAUSE	In the **VCR** and **TV** modes, use the **REW, PLAY, FF, REC, STOP,** and **PAUSE** keys to control your VCR. To record a program, press **REC** twice.
	Reserved for cable converter features (see converter manual).
TV/VCR	Press **TV/VCR** once to switch the VCR to view TV channels or tape. This key will also control the input select feature on most TVs.

INSTALLING BATTERIES



1. On the back of the Millennium 4, push the tab and lift off the battery cover.

2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.

3. Press the battery cover back into place. The tab should click when the cover is locked.

4. Test the unit by pressing **POWER** and any mode key (e.g. **AUDIO**,**VCR**, **TV**, or **CBL**). If the batteries are inserted correctly, the LED will blink once.

NOTE: Whenever batteries need replacement, the Millennium 4 will blink twice with every key press. Simply replace the batteries and the Millennium 4 will be restored to its full functionality, complete with your favorite settings.

PROGRAMMING TV CONTROL

NOTE: If you own a TV/VCR combination, skip this section and perform "Programming TV/VCR Combo Control" on page 8.

Locate the brand name of your TV in the *Setup Codes for TVs* in the next section, and write it in the space below.

TV Brand: _____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your TV:

1. Turn on the TV.

2. On the Millennium 4, press **TV** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP.**

3. Enter the first four-digit code for your TV. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at your TV and press **POWER** once. The TV should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 12).

5. Write your TV code in the boxes below for future reference.

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*NOTE: Remember, to use the Millennium 4 to operate your TV, press **TV** first.*

SETUP CODES FOR TVs:

AOC 0030, 0019
Admiral 0093, 0463
Aiko 0092
Akai 0030
Alaron 0179
America Action 0180
Anam 0180
Audiovox 0451, 0180, 0623, 0092
Baysonic 0180
Belcor 0019
Bell & Howell 0154, 0016
Bradford 0180
Brockwood 0019
Broksonic 0236, 0463
CXC 0180
Candle 0030, 0056
Carnivale 0030
Carver 0054
Celebrity 0000
Cineral 0451, 0092
Citizen 0060, 0030, 0056, 0092, 0280
Concerto 0056
Contec 0180
Craig 0180
Crosley 0054
Crown 0180
Curtis Mathes 0047, 0747, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0056, 0145, 0016, 0166
Daewoo 0451, 0019, 0623, 0624, 0092
Daytron 0019
Denon 0145
Dumont 0017, 0019
Electroband 0000
Emerson 0154, 0236, 0463, 0180, 0178, 0179, 0019, 0623, 0624, 0282, 0280
Envision 0030
Fisher 0154
Fujitsu 0179, 0683
Funai 0180, 0179, 0171
Futuretech 0180
GE 0047, 0747, 0051, 0451, 0093, 0178, 0021, 0282
Gibralter 0017, 0030, 0019
GoldStar 0030, 0178, 0056, 0019
Gradiente 0053, 0056
Grunpy 0180, 0179
Hallmark 0178
Harley Davidson 0179
Harman/Kardon 0054
Harvard 0180
Hitachi 0056, 0145, 0016
Infinity 0054
Inteq 0017
JBL 0054
JCB 0000
JVC 0053
KEC 0180
KTV 0180, 0030, 0280
Kenwood 0030, 0019
Konka 0707, 0628, 0632, 0638, 0703
LG 0056
LXI 0047, 0747, 0054, 0154, 0156, 0178
Logik 0016
Luxman 0056
MGA 0150, 0030, 0178, 0019
MTC 0060, 0030, 0056, 0019
Magnavox 0054, 0030, 0179
Majestic 0016
Marantz 0054, 0030
Matsushita 0250
Megatron 0178, 0145
Memorex 0154, 0250, 0463, 0150, 0178, 0179, 0056, 0016
Midland 0047, 0747, 0017, 0051
Minutz 0021
Mitsubishi 0093, 0150, 0178, 0019
Motorola 0093
Multitech 0180
NAD 0156, 0178, 0166
NEC 0030, 0056, 0019
NTC 0092
Nikko 0030, 0178, 0092
Onwa 0180
Optimus 0154, 0250, 0166
Optonica 0093, 0165
Orion 0236, 0463, 0179
Panasonic 0051, 0250
Penney 0047, 0747, 0156, 0051, 0060, 0030, 0178, 0021, 0056, 0019
Philco 0054, 0463, 0030, 0145, 0019
Philips 0054
Pilot 0030, 0019
Pioneer 0166
Portland 0019, 0092
Prism 0051
Proscan 0047, 0747
Proton 0178
Pulsar 0017, 0019
Quasar 0051, 0250, 0165
RCA 0047, 0747, 0090, 0051, 0093, 0019, 0278
RadioShack 0047, 0747, 0154, 0180, 0030, 0178, 0056, 0019, 0165
Realistic 0154, 0180, 0030, 0178, 0056, 0019, 0165
Runco 0017, 0030
SSS 0180, 0019
Sampo 0030
Samsung 0060, 0030, 0178, 0056, 0019
Sansei 0451
Sansui 0463
Sanyo 0154
Scimitsu 0019
Scotch 0178
Scott 0236, 0180, 0178, 0179, 0019
Sears 0047, 0747, 0054, 0154, 0156, 0178, 0179, 0056, 0171
Semivox 0180
Semp 0156
Sharp 0093, 0688, 0165
Shogun 0019
Signature 0016
Sony 0000
Soundesign 0180, 0178, 0179
Squareview 0171
Starlite 0180
Supreme 0000
Sylvania 0054, 0030
Symphonic 0180, 0171
TMK 0178, 0056
TNCi 0017
Tandy 0093
Technics 0051, 0250
Technol Ace 0179
Techwood 0051, 0056
Teknika 0054, 0180, 0150, 0060, 0179, 0056, 0019, 0016, 0092
Telefunken 0056
Toshiba 0154, 0156, 0060
Vector Research 0030
Victor 0053
Vidikron 0054
Vidtech 0178, 0019
Wards 0054, 0030, 0178, 0021, 0179, 0056, 0019, 0016, 0165
White Westinghouse 0463, 0623, 0624
Yamaha 0030, 0019
Zenith 0017, 0463, 0624, 0016, 0092

PROGRAMMING VCR/DVD PLAYER CONTROL

NOTE: If you own a TV/VCR combination, skip this section and perform "Programming TV/VCR Combo Control" on page 8.

Locate the brand name of your VCR in *Setup Codes for VCRs* on the next page, your DVD player in *Setup Codes for DVD Players* on the next page, and write it in the appropriate space below.

VCR Brand: _____ or DVD Player Brand: _____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your VCR or DVD player:

1. Turn on your VCR and insert a video cassette, or turn on your DVD player and insert a DVD.

2. On the Millennium 4, press **VCR** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter the first four-digit code for your VCR or DVD player. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at the VCR or DVD player and press **POWER** once. The device should turn off. If your VCR remote control does not have a POWER key, press **PLAY**. If the device does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If the device still does not work, try searching for the code (see *Searching For Your Code* on page 12).

5. For future reference, write your device's code and type in the boxes and space below.

   ☐ ☐ ☐ ☐

   Device Type:_____

   *NOTE: Remember, to use the Millennium 4 to operate your VCR or DVD player, press **VCR** first.*

SETUP CODES FOR VCRs:

Admiral 0048, 0209
Adventura 0000
Aiko 0278
Aiwa 0037, 0000
Akai 0041
America Action 0278
American High 0035
Asha 0240
Audiovox 0037
Beaumark 0240
Bell & Howell 0104
Broksonic 0184, 0121, 0209, 0002, 0479, 0295
CCE 0072, 0278
Calix 0037
Canon 0035
Carver 0081
Cineral 0278
Citizen 0037, 0278
Colt 0072
Craig 0037, 0047, 0240, 0072
Curtis Mathes 0035, 0060, 0162, 0041
Cybernex 0240
Daewoo 0045, 0278, 0561
Denon 0042
Dynatech 0000
Electrohome 0037
Electrophonic 0037
Emerex 0032
Emerson 0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 0561, 0295, 0294
Fisher 0047, 0104
Fuji 0035, 0033
Funai 0000
GE 0035, 0060, 0048, 0240
Garrard 0000
Go Video 0432, 0526, 0643, 0232, 0279
GoldStar 0037
Gradiente 0000
HI-Q 0047
Harley Davidson 0000
Harman/Kardon 0081
Harwood 0072
Headquarter 0046
Hitachi 0000, 0042, 0041, 0105
Hughes Network Sys. 0042
JVC 0067, 0041
Jensen 0041
KEC 0037, 0278
KLH 0072
Kenwood 0067, 0041
Kodak 0035, 0037
LXI 0037
Lloyd's 0000
Logik 0072
MEI 0035
MGA 0240, 0043
MGN Technology 0240
MTC 0000, 0240
Magnasonic 0278
Magnavox 0035, 0039, 0081, 0000
Magnin 0240
Marantz 0035,0081
Marta 0037
Matsushita 0035, 0162, 0454
Memorex 0035, 0037, 0048, 0039, 0047, 0162, 0000, 0240, 0104, 0209, 0454, 0479, 0046
Minolta 0042, 0105
Mitsubishi 0048, 0067, 0043
Motorola 0035, 0048
Multitech 0000, 0072
NEC 0067, 0104, 0041
Nikko 0037
Noblex 0240
Olympus 0035
Optimus 0037, 0048, 0162, 0104, 0454, 0432
Orion 0184, 0209, 0002, 0479, 0295
Panasonic 0035, 0225, 0162, 0454, 0616
Penney 0035, 0037, 0042, 0240
Pentax 0042, 0105
Philco 0035, 0209, 0479
Philips 0035, 0081, 0618
Pilot 0037
Pioneer 0067
Polk Audio 0081
Profitronic 0240
Proscan 0060
Protec 0072
Pulsar 0039
Quarter 0046
Quartz 0046
Quasar 0035, 0162, 0454
RCA 0035, 0060, 0048, 0042, 0240, 0105, 0060
RadioShack 0000
Radix 0037
Randex 0037
Realistic 0035, 0037, 0048, 0047, 0000, 0104, 0046
ReplayTV 0614, 0616
Runco 0039
STS 0042
Samsung 0045, 0240
Samtron 0643
Sanky 0048, 0039
Sansui 0000, 0067, 0209, 0041, 0479
Sanyo 0047, 0240, 0104, 0046
Scott 0184, 0045, 0121, 0043
Sears 0035, 0037, 0047, 0000, 0042, 0104, 0046, 0105
Semp 0045
Sharp 0048
Shintom 0072
Shogun 0240
Singer 0072
Sony 0035, 0032, 0000, 0636, 0033
Sylvania 0035, 0081, 0000, 0043
Symphonic 0000
TMK 0240
Tatung 0041
Teac 0000, 0041
Technics 0035, 0162
Teknika 0035, 0037, 0000
Thomas 0000
Tivo 0618, 0636
Toshiba 0045, 0043
Totevision 0037, 0240
Unitech 0240
Vector 0045
Video Concepts 0045
Videosonic 0240
Wards 0035, 0060, 0048, 0047, 0081, 0000, 0042, 0240, 0072
White Westinghouse 0209, 0072, 0278
XR-1000 0035, 0000, 0072
Zenith 0039, 0000, 0209, 0479, 0033

SETUP CODES FOR DVD PLAYERS:

Aiwa 0641
Apex 0672
B & K 0655, 0662
Denon 0490, 0634
Fisher 0670
GE 0522
Gradiente 0651
Harman/Kardon 0582
Hitachi 0573, 0664
Hiteker 0672
JVC 0558, 0623
Kenwood 0534, 0682
Konka 0711, 0719, 0720, 0721
Magnavox 0503, 0675
Marantz 0539
Mitsubishi 0521
Onkyo 0503, 0627
Optimus 0571
Oritron 0651
Panasonic 0490, 0677, 0632, 0678, 0679
Philips 0503, 0539
Pioneer 0525, 0571, 0632
Proscan 0522
RCA 0522, 0571
Samsung 0573
Sharp 0630
Sherwood 0633
Sony 0533
Technics 0490
Techwood 0692
Theta Digital 0571
Toshiba 0503
Yamaha 0490, 0545
Zenith 0503, 0591

PROGRAMMING TV/VCR COMBO CONTROL

Locate the brand name of your TV/VCR Combo in *Setup Codes for TV/VCR Combos* below, and write it in the space below.

TV/VCR Combo Brand: _____

The brands are listed in alphabetical order with popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your TV/VCR Combo:

1. Turn on your TV/VCR Combo and insert a video cassette.

2. On the Millennium 4, press **VCR** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter the first four-digit code for your TV/VCR Combo. If you perform this procedure correctly, the LED will blink twice.

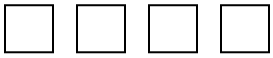
   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at your TV/VCR Combo and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 12).

5. If you've found a TV/VCR setup code that works your TV/VCR Combo and a separate TV code is also listed, you'll need to program this code into the Millennium 4 to access volume control (see *Programming TV Control on* page 8). If there is no separate TV code listed, you will need to perform the following steps to access volume control:

   a. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
   b. Enter **9** - **9** - **3**.The LED will blink twice.
   c. Press **VCR** once. The LED will blink twice.

6. Write your TV/VCR Combo code in the boxes below for future reference.



*NOTE: Remember, to use the Millennium 4 to operate your TV/VCR Combo, press **VCR** first.*

SETUP CODES FOR TV/VCR COMBOs:

American High 0035 (for TV use 0051)
Brocksonic 0002, 0294,
Colt 0072
Curtis Mathis 0035 (for TV use 0051)
Daewoo 0278
Emerson 0002, 0294, 0479
Funai 0000
GE 0035 (for TV use 0051), 0060 (for TV use 0047),
0048 (for TV use 0093), 0240
Hitachi 0035 (for TV use 0051), 0000
HQ 0000
Lloyds 0000
MGA 0240
Magnavox 0081 (for TV use 0054), 0035 (for TV use 0051), 0000
Magnin 0240
Memorex 0037, 0162 (for TV use 0250)
Mitsubishi 0048 (for TV use 0093)
Orion 0002, 0294, 0479
Panasonic 0035 (for TV use 0051), 0162 (for TV use 0250)
Penney 0035 (for TV use 0051), 0240, 0162 (for TV use 0250)
Quasar 0035 (for TV use 0051), 0162 (for TV use 0250)
RCA 0060 (for TV use 0047), 0035 (for TV use 0051),
0048 (for TV use 0093)
Sansui 0000, 0479
Sanyo 0240
Sears 0000, 0037
Sharp 0048 (for TV use 0093)
Sony 0032 (for TV use 0000)
Symphonic 0000
Zenith 0000

PROGRAMMING CABLE CONVERTER (OR DBS RECEIVER) CONTROL

The Millennium 4 is preprogrammed at the factory to operate the cable converter given to you by your cable company. However, if you have another brand or model of cable converter or satellite receiver that you would like to control, then you'll need to perform the following instructions to unlock the cable key, enter in a new code, and lock the cable key again.

To Unlock the CBL Key:

1. Turn on the Cable Converter or DBS Receiver.

2. On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter **9** - **9** - **7**.The LED will blink twice.

4. Press **CH-** once. The LED will blink twice.

To Program the CBL Key:

1. On the next page, locate the brand name of your Cable Converter in *Setup Codes For Cable Converters*, or DBS (Direct Broadcast Satellite) Receiver in *Setup Codes For DBS Receivers*, and write it in the appropriate space below.

   Cable Converter Brand: _____ or DBS Receiver Brand: _____

   The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to reprogram the Millennium 4 to operate your Cable Converter or DBS Receiver.

2. On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter the first four-digit code for your Cable Converter or DBS Receiver. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at your Cable Converter or DBS Receiver and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 12).

5. Write your Cable Converter or DBS Receiver code in the boxes below for future reference.

   ☐ ☐ ☐ ☐

   Device Type:_____

   *NOTE: Remember, to use the Millennium 4 to operate your Cable Converter or DBS Receiver, press **CBL** first.*

To Lock the CBL Key:

1. On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **7**.The LED will blink twice.

3. Press **CH+** once. The LED will blink twice.

SETUP CODES FOR CABLE CONVERTERS

ABC 0003, 0008
Americast 0899
Bell South 0899
General Instrument 0476
GoldStar 0144
Hamlin 0273
Jerrold 0003, 0476
Memorex 0000
Panasonic 0000
Paragon 0000
Philips 0305
Pioneer 0144, 0877, 0533
Pioneer 0533
Pulsar 0000
Quasar 0000
Regal 0273
Runco 0000
Samsung 0144
Scientific Atlanta 0008, 0477, 0877
Starcom 0003
Toshiba 0000
Zenith 0525, 0000, 0899

SETUP CODES FOR DBS RECEIVERS

Echostar 0775, 1005
Expressvu 0775
GE 0566
General Instrument 0869, 0892
HTS 0775
Hughes Network Sys. 0749
JVC 0775
Mitsubishi 0749
Next Level 0869, 0892
Philips 0749, 1076
Proscan 0392
RCA 0566, 0392
RadioShack 0869
Samsung 1109
Sony 0639
Star Choice 0869
Toshiba 0749

PROGRAMMING CHANNEL CONTROL LOCK

By activating this feature, the Millennium 4 will only allow access to the channel control capabilities of your cable converter. This will guarantee that you do not inadvertently change the channel on your TV or VCR.

To Activate Channel Control Lock:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **6**.The LED will blink twice.

3. Press **CH+** once. The LED will blink twice.

4. Now, regardless of what mode you select (i.e., **TV**, **VCR**, or **CBL**), only the channel control capability of your cable converter will be accessible.

   NOTE: This feature does not affect the Audio mode.

To De-Activate Channel Control Lock:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **6**.The LED will blink twice.

3. Press **CH-** once. The LED will blink twice.

4. The Millennium 4 will again provide TV and VCR channel control capabilities while in the TV or VCR mode.

PROGRAMMING AUDIO CONTROL

Locate the brand name of your audio amplifier or receiver in the one of accompanying code lists at the end of this section. Write it in the appropriate space below.

Audio Amplifier Brand: _____ or Audio Receiver Brand:_____

The brands are listed in alphabetical order with popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your audio device:

1. Turn on the audio device.

2. On the Millennium 4, press **AUDIO** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter the first four-digit code for your audio device. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Millennium 4 at your audio device and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2-3, trying each code listed for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 12).

5. For future reference, write your device's code and type in the boxes and space below.

   ☐ ☐ ☐ ☐

   Device Type:_____

*NOTE: Remember, to use the Millennium 4 to operate your audio device, press **AUDIO** first.*

SETUP CODES FOR AUDIO AMPLIFIERS:

Denon 0160
GE 0078
Harman/Kardon 0892
JVC 0331
Marantz 0892
Optimus 0395
Panasonic 0308
Philips 0892
Polk Audio 0892
Realistic 0395
Sony 0689
Soundesign 0078
Technics 0308
Victor 0331
Wards 0078
Yamaha 0354

SETUP CODES FOR AUDIO RECEIVERS:

ADC 0531
Adcom 0616
Aiwa 1405, 0121, 0405
Capetronic 0531
Carver 0008
Casio 0195
Clarinette 0195
Denon 1104, 1160
Garrard 0463
Harman/Kardon 0110, 0891
JBL 0110
JVC 0074
Kenwood 1313, 1027, 1570, 1569, 0186, 0077
Lloyd's 0195
MCS 0039, 0346
Magnavox 0531, 0195, 0391
Marantz 0039
Modulaire 0195
Nakamichi 0097
Onkyo 0135
Optimus 1023, 0531, 0670, 0186, 0177
Panasonic 1518, 0039
Penney 0195
Philips 1269,1120, 0391
Pioneer 1023, 0531, 0014, 0150, 0630
Proscan 1254
Quasar 0039
RCA 1023, 1254, 0531, 0054, 0346
Realistic 0195
Sansui 0346
Sharp 0186
Sony 1058
Soundesign 0670
Sunfire 1313
Teac 0463
Technics 1308, 1309, 1518, 0039
Victor 0074
Wards 0014, 0054
Yamaha 0176, 1176, 0186
Yorx 0195
Zenith 0857

SEARCHING FOR YOUR CODE

If your TV, VCR or DVD Player, Cable Converter, or Audio Component does not respond to the Millennium 4 after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code. For example, to search for a code for your TV:

1. Turn on your TV.

2. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter **9** - **9** - **1**.The LED will blink twice.

4. Aim the remote control at the TV and slowly alternate between pressing **POWER** and **TV**. Stop when the TV turns off.

NOTE: In the search mode, the Millennium 4 will send IR codes from its library to the selected component, starting with the most popular code first.

5. Press **SETUP** once to lock in the code.

6. To search for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **VCR**, **CBL**, or **AUDIO**) for the (VCR or DVD, Cable, or Audio) component you are searching for.

CHECKING THE CODES

If you have set up the Millennium 4 using the *Searching For Your Code* procedure, you may need to find out which four-digit code is operating your equipment: For example, to find out which code is operating your TV:

1. Turn on your TV.

2. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter **9** - **9** - **0**.The LED will blink twice.

4. To view the code for the first digit, press **1** once. Wait 3 seconds and count the number of LED blinks (e.g., 3 blinks = 3) and write down the number in the leftmost TV Code box below.

   NOTE: If a code digit is "0", the LED will not blink.

5. Repeat step 4 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit, and **4** for the fourth digit. Finish writing down the code in the TV Code boxes below.

6. To check for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **VCR**, **CBL**, or **AUDIO**) for the (VCR or DVD, Cable, or Audio) component you are checking. Write down the codes in the appropriate boxes below.

TV Code

☐ ☐ ☐ ☐

VCR (or DVD Player) Code

☐ ☐ ☐ ☐

CBL Code

☐ ☐ ☐ ☐

AUDIO _____ Code

☐ ☐ ☐ ☐

PROGRAMMING THE "TUNE-IN" KEYS FOR SPECIFIC CHANNELS

The Millennium 4 includes three "Tune-In" keys (located directly below the **PAGE** keys). Each can be programmed to remember three of your favorite channel settings for a total of nine channels. If you want to change the channels in a previously-programmed "Tune-In" key, you'll need to clear the key first (see below).

To Program a "Tune-In" Key:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **5**.The LED will blink twice. Then select a "Tune-In" key and press it once.

3. Press **CBL** once followed by the channel number to be programmed (e.g., 3 – 9).

   NOTE: If you are programming a channel for a Digital Cable Converter, you need to enter all channels in a 3-digit channel format. For example, if the desired channel is 39, then enter it as **0 – 3 – 9**.

4. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

5. To add another channel, repeat steps 1 through 4 substituting the new channel to be added in step 3.

   ** NOTE: Programming more than three channels onto the same "Tune-In" key will overwrite previous settings.*

To Clear a "Tune-In" Key:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **5**.The LED will blink twice. Then select a "Tune-In" key you want cleared and press it once.

3. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

4. This "Tune-In" key is now clear and ready for reprogramming (see above – *To Program a "Tune-In" Key*).

5. If desired, repeat steps 1 through 4 to clear another "Tune-In" key.

RE-ASSIGNING DEVICE KEYS

The Millennium 4 can be set up to control a second TV or VCR, or any combination of four home entertainment components. For example, to have the Millennium 4 control a TV, a Cable Converter, and *two* VCRs, you will need to re-assign the unused **AUDIO** key to operate the second VCR as follows:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9** - **9** - **2**. The LED will blink twice.
3. Press **VCR** once, then press **AUDIO** once.
4. The **AUDIO** key is now ready to be programmed for your second VCR. See *Programming VCR/DVD Player Control* on page 6. To re-assign other device keys, repeat steps 1 through 4 by substituting the key sequence from the following chart for a desired component:

To Re-Assign	**Perform Key Sequence**
TV as 2nd VCR key:	**SETUP** - **9** - **9** - **2** - **VCR** - **TV**
TV as 2nd Audio key:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **TV**
TV as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **TV**
TV back to **TV**:	**SETUP** - **9** - **9** - **2** - **TV** - **TV**
VCR as 2nd TV key:	**SETUP** - **9** - **9** - **2** - **TV** - **VCR**
VCR as 2nd Audio key:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **VCR**
VCR as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **VCR**
VCR back to **VCR**:	**SETUP** - **9** - **9** - **2** - **VCR** - **VCR**
AUDIO as 2nd TV key:	**SETUP** - **9** - **9** - **2** - **TV** - **AUDIO**
AUDIO as 2nd VCR key:	**SETUP** - **9** - **9** - **2** - **VCR** - **AUDIO**
AUDIO as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **AUDIO**
AUDIO back to **AUDIO**:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **AUDIO**

Upon completion of a re-assignment, the LED will blink twice to confirm your selection. At that time, you will also need to program the Millennium 4 to control the new component. See previous sections on *Programming TV Control*, *Programming VCR/DVD Player Control*, *Programming Cable Converter (or DBS Receiver) Control*, or *Programming Audio Control*.

CHANGING VOLUME LOCK

The Millennium 4 is set to control volume of a component through your TV while in the TV, VCR, or Cable mode. However, in the Audio mode, you have separate control of your audio component's volume. If your TV is not remote controllable, or if you would like the volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the *cable* in the TV mode).

To Change Volume Lock to the Cable Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9** - **9** - **3** and then press **CBL** once. The LED will blink twice.
3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your cable converter or DBS receiver.

To Change Volume Lock to the TV Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9** - **9** - **3** and then press **TV** once. The LED will blink twice.
3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your TV.

To Change Volume Lock to the VCR Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9** - **9** - **3** and then press **VCR** once. The LED will blink twice.
3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the remote, volume will be controlled by your VCR or DVD player.

To Change Volume Lock to the Audio Mode:

NOTE: Performing these steps will allow you to access the volume control of your audio component in all modes.

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9** - **9** - **3** and then press **AUDIO** once. The LED will blink twice.
3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the remote, volume will be controlled by your audio component.

TROUBLESHOOTING

PROBLEM: LED does not blink when you press a key.
SOLUTION: Replace the batteries with two (2) new AA alkaline batteries (see page 4).

PROBLEM: LED blinks when you press a key, but home entertainment component does not respond.
SOLUTION: Make sure you are aiming the Millennium 4 at your home entertainment component and that you are within 15 feet of the component you are trying to control.

PROBLEM: The Millennium 4 does not control home entertainment components or commands are not performing properly.
SOLUTION: Try all listed codes for the component brand being set up. Make sure all components can be operated with an infrared remote control.

PROBLEM: TV/VCR combo does not respond properly.
SOLUTION: Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation (see page 8).

PROBLEM: No volume on a second TV.
SOLUTION: Follow instructions in *Changing Volume Lock* (see page 14).

PROBLEM: **CH+** , **CH-** , and **LAST** do not work for your RCA TV.
SOLUTION: Due to RCA design (1983-1987), only the original remote control will operate these functions.

PROBLEM: Changing channels does not work properly.
SOLUTION: If original remote control required pressing ENTER to change channels, press **ENTER** on the Millennium 4 after entering a channel number.

PROBLEM: Tried “Search Method” and still could not find a working code.
SOLUTION: Try the “Search Method” again after clearing out the device key as follows: Press and hold **SETUP** until the LED (red light) blinks twice, then release. Next enter **9** - **9** - **2**.Then press and release the device key to be cleared twice.

PROBLEM: Remote control does not turn on Sony or Sharp TV/VCR Combo.
SOLUTION: For power on, these products require programming TV codes on the Millennium 4. For Sony, use TV code 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048.

ADDITIONAL INFORMATION

The Millennium 4 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Millennium 4.

For help via the Internet, visit us at:

cable.rcinfo.com
(do not type in *http://* or *www* before the address)

For help via e-mail, contact us at:

CableHelp@ueic.com

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